

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/011154 A1

(51) International Patent Classification⁷: **H04B 7/26**

(21) International Application Number:
PCT/KR2004/001880

(22) International Filing Date: 26 July 2004 (26.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0051466 25 July 2003 (25.07.2003) KR

(71) Applicant (for all designated States except US): **UTSTAR-COM KOREA LIMITED** [KR/KR]; San 136-1, Ami-ri, Bubal-eub, Icheon-si, Kyongki-do 467-701 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **CHO, Kye Chol** [KR/KR]; San 136-1, Ami-ri, Bubal-eub, Icheon-si, Gyeonggi-do 467-701 (KR).

(74) Agent: **YOON, Jee Hong**; Hannuri Bldg., 219, Naeja-dong, Chongno-gu, Seoul 110-053 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

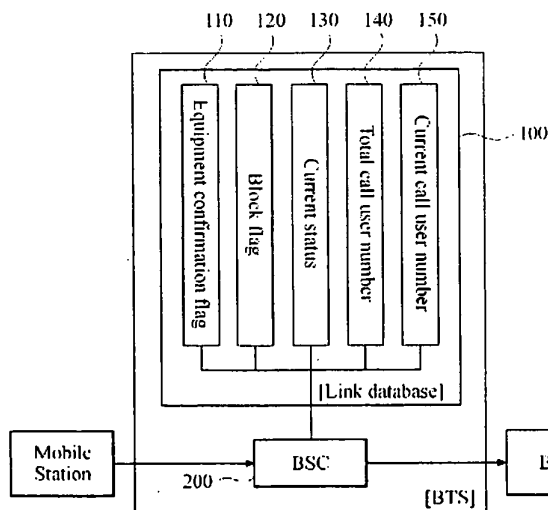
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **METHOD OF ALLOCATING LINKS IN A 1X EVDO SYSTEM**



(57) Abstract: The present invention is directed to a method of allocating links in a base station of a 1x EVDO (EVolution Data Only) system. Conventionally, since a 1x EVDO system sequentially allocates a link to a user who requested a call setup irrespective of the link status, some of the allocated links may suffer from overload that eventually decreases the data transmission rate for the user. However, in order to perform the link allocation in due consideration of the link status, the present invention uses a link database including various status information, such as an equipment confirmation flag, a block flag, a current status, the total call user number, and the current call user number. With the status information, a base station control processor (BCP) in the 1x EVDO system of the present invention distributes traffic loads among the links and ensures an optimized data transmission rate.

WO 2005/011154 A1